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Attorney Reference Number 4239-66646-06 Application Number 10/526,820

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joel Moss et al.

Application No.: 10/526,820

Filed: March 3, 2005 Confirmation No.: 5471

For: FACTORS THAT BIND INTESTINAL

TOXINS

Examiner: To be assigned -

Art Unit: 1617

Attorney Reference No.: 4239-66646-06

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP 16, DIRECTOR OF THE U.S. PATENT AND TRADEMARK OFFICE, P.O. Box 1450, Alexandra, VA 22313-1450 on the date shown below.

Attorney or Agent for Applicant(s)___

Date Mailed June 6, 2006

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REQUEST FOR REFUND UNDER 37 C.F.R. § 1.26

Applicants hereby request a refund of \$1,250.00 for the excess claims fees improperly charged by the U.S. Patent and Trademark Office (USPTO) to Deposit Account No. 02-4550 in connection with the above-referenced application.

The amount of \$1,350.00 was charged to Deposit Account No. 02-4550 on November 8, 2005, as shown in a highlighted manner on the attached November 30, 2005 Deposit Account Statement (Exhibit A). It appears that this charge is for extra claims fees for the application. This charge is erroneous in view of the following facts:

Applicants filed this application on March 3, 2005, with a Preliminary Amendment to reduce the number of claims, among other things. A copy of the original patent application Transmittal Letter showing the total number of claims filed with this application is attached as **Exhibit B**. A copy of the Preliminary Amendment filed with the application, showing amendments to the claims, is attached as **Exhibit C**. It appears that the filing fees were

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calculated by the USPTO <u>prior</u> to entry of the Preliminary Amendment, and thus the charge to the deposit account was incorrectly made. As indicated on the Transmittal Letter, this application was amended upon filing to include 49 total claims and three independent claims. Therefore, the filing fee submitted with the application (\$2,750.00 plus \$40.00 recordation fee, totaling \$2,790.00) is correct. No additional charges were required. Applicants therefore request a refund of the miscalculation of claims fees, totaling \$1,350.00.

Please mail the refund to the undersigned agent, or credit the refund to Deposit Account No. 02-4550. A copy of this document or paper is enclosed.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

Βv

Wayne W. Rupert

Registration No. 34,420

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121 S.W. Salmon Street

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TRANSMITTAL LET	TER TO THE UNITED STATES	4239-66646-06
DESIGNATED/EL	ECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 C.F.R. § 1.3)
CONCERNING A NATIONAL	STAGE FILING UNDER 35 U.S.C. § 371	Not yet assigned
INTERNATIONAL APPLICATION NO. PCT/US2003/028282	September 9, 2003	PRIORITY DATE CLAIMED September 10, 2002
TITLE OF INVENTION FACTORS THAT BIND INTESTIN	AL TOXINS	
APPLICANT(S) FOR DO/EO/US		
Joel Moss and Masatoshi Noda		
••	tes Designated/Elected Office (DO/EO/US) the following items	and other information:
-	ission of items concerning a filing under 35 U.S.C. § 371.	
· · · · · · · · · · · · · · · · · ·	SUBSEQUENT submission of items concerning a filing under	
time rather than dela	puest to begin national examination procedures (35 U.S.C. § 371 wexamination until the expiration of the applicable time limit se ticles 22 and 39(1). Items 5, 6, 9 and 21 indicated below are sul puest.	t in 35 U.S.C.
4. 🛛 The United States ha	s been elected in a Demand for International Preliminary Exami	nation (Article 31).
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6. An English-language	translation of the International Application (35 U.S.C. § 371(c)	(2)).
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	made; however, the time limit for making such amendments has	s NOT expired.
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		19 (33 U.S.C. § 3/1(c)(3)).
-	n of the inventor(s) (35 U.S.C. § 371(c)(4)). translation of the annexes to the international Preliminary Exa	minution Report under PCT Article 36
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Items 11 to 21 below concern document(s		
	sure Statement under 37 C.F.R. §§ 1.97 and 1.98.	
12. ☑ An assignment docume Recordal fee of \$40.00	nt for recording. A separate cover sheet in compliance with 37 are included.	C.F.R. §§ 3.28 and 3.31 and the
13. 🖾 A preliminary amendr		
14. 🔲 An Application Data S	-	
15. A substitute specificati		•
16. Powers of attorney from		
	orm of the sequence listing in accordance with PCT Rule 13ter.	
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	nglish-language translation of the international application und	er 35 U.S.C. § 154(d)(4).
20. ☑ Other items or informa ☑ Abstract on a separ		
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Processing fee of claimed priority	of \$130.00 for ty date (37 C.F	furnishing the Eng .R. §§ 1.492(f)).	lish translation later than	30 months fr	om the earliest	\$	0.00	
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cc: Docketing

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Moss et al. Application No. Not yet assigned

Filed: Herewith

Confirmation No. Not yet assigned

For: FACTORS THAT BIND INTESTINAL

TOXINS

Examiner: Not yet assigned Art Unit: Not yet assigned

Attorney Reference No. 4239-66646-06

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I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as Express Mail Label No. EV510808334US in an envelope addressed to: MAIL STOP PCT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Agent for Applicant(s

Date Method <u>March 3, 2005</u>

PRELIMINARY AMENDMENT

Prior to examination of the above-referenced patent application, please amend the application as follows:

Amendments to the Specification begin on page 2.

Amendments to the Claims are reflected in the listing of claims, which begins on page 3.

Remarks begin on page 12.



Amendments to the Specification

Please replace the paragraph beginning at page 1, line 3, immediately following the title, with the following rewritten paragraph:

-- PRIORITY CLAIM

This is the § 371 U.S. National Stage of International Application No.

PCT/US2003/028282, filed September 9, 2003, which was published in English under PCT

Article 21(2), which in turn claims the benefit of U.S. Provisional Application No. 60/409,742, filed September 10, 2002, which is incorporated by reference in its entirety.—

Please insert the attached Abstract as page 43 of the specification.

Claims

- 1. (original) A method for treating a subject having an infection caused by an Stx-producing organism by administering to the subject a therapeutically effective amount of hop bract tannin.
- 2. (original) The method of claim 1 further comprising administering to the subject a therapeutically effective amount of an antibiotic, the antibiotic being effective to treat an infection with the Stx-producing organism.
- 3. (original) The method of claim 2, wherein the antibiotic is selected from the group consisting of cefixime, tetracycline, ciprofloxacin, co-trimoxazole, norfloxacin, ofloxacin, fosfomycin and kanamycin and combinations thereof.
- 4. (original) The method of claim 1, wherein the hop bract tannin comprises a catechin polymer.
- 5. (original) The method of claim 4, wherein the catechin polymer comprises a polycatechin between a 10-mer and a 30-mer.
 - 6. (original) The method of claim 1, wherein the infection is an enteric infection.
- 7. (original) The method of claim 6, wherein the hop bract tannin is administered enterically.

8. (original) The method of claim 5 where the polycatechin has the formula

where n=8 to 28.

9. (original) The method of claim 5 where the polycatechin has the formula

where n = 8 to 28.

10. (original) The method of claim 1, wherein the hop bract tannin comprises a fraction isolated from a hop bract extract.

- 11. (original) The method of claim 10, wherein the fraction has a weight-average molecular mass between 5kDa and 30 kDa.
- 12. (original) The method of claim 1, wherein the Stx-producing organism comprises an Stx1-producing organism.
- 13. (original) The method of claim 1, wherein the Stx-producing organism is a Shiga toxin-producing *Eschericia coli*.
- 14. (original) The method of claim 1, wherein the infection is an enteric infection, and the hop bract tannin comprises a polycatechin between a 10-mer and a 30-mer, which is administered enterically.
- 15. (original) The method of claim 14, wherein the infection presents clinically as severe diarrhea, hemorrhagic colitis, hemolytic uremic syndrome and thrombotic thrombocytopenic purpura.

16. (canceled)

17. (currently amended) A method of treating a subject having an infection of an Stx-producing organism, comprising The method of claim 1, wherein administering to the subject a therapeutically effective amount of hop bract tannin comprises:

selecting a hop bract tannin having an affinity for an Stx produced by the Stx-producing organism; and

administering the hop bract tannin to the subject enterically in an amount effective to alleviate a clinical presentation of the infection.

18. (original) The method of claim 17, wherein selecting comprises isolating hop bract tannin from a hop bract extract by affinity chromatography with a chromatographic matrix derivatized with the Stx.

- 19. (original) The method of claim 17, wherein selecting comprises obtaining a high molecular weight fraction of a hop bract extract.
- 20. (original) The method of claim 19, wherein the high molecular weight fraction has a weight-average molecular weight of 5 kDa or greater.
- 21. (original) The method of claim 17, wherein selecting comprises detecting a hop bract tannin component having an affinity for the Stx.
- 22. (currently amended) The method of claim 21, wherein detecting a component having an affinity for the Stx comprises detecting a signal generated by a biosensor, the biosensor having a hop bract tannin as the <u>a</u> bioreceptor portion of the biosensor.
 - 23. (original) The method of claim 22 where the hop bract tannin is a polycatechin.
- 24. (original) The method of claim 23 where the polycatechin is between a 10-mer and a 30-mer polycatechin.
 - 25. 26. (canceled)
- 27. (original) The method of claim 17, wherein the clinical presentation of the infection is one or more of severe diarrhea, hemorrhagic colitis, hemolytic uremic syndrome and thrombotic thrombocytopenic purpura.
 - 28. (canceled)
- 29. (original) A method for detecting the presence of an Stx in a biological sample, comprising:

contacting the biological sample with a hop bract tannin; and detecting a macromolecular complex between the Stx and the hop bract tannin.

Page 6 of 12

- 30. (original) The method of claim 29, wherein detecting comprises detecting a precipitate comprising the complex.
- 31. (original) The method of claim 29, wherein detecting the macromolecular complex between the hop bract tannin and the Stx comprises detecting an electrophoretic pattern associated with the presence of the macromolecular complex in the sample.
- 32. (original) The method of claim 29, wherein the hop bract tannin serves as a bioreceptor of a biosensor and detecting comprises measuring a change in a property of a transducer of the biosensor.
- 33. (original) The method of claim 29, wherein the hop bract tannin is a polycatechin between a 10-mer and a 30-mer.
 - 34. (original) The method of claim 29, wherein the polycatechin has the forumla

where n = 8 to 28, or

where n = 8 to 28.

- 35. (original) The method of claim 29, wherein the hop bract tannin comprises a fraction isolated from a hop bract extract.
- 36. (original) The method of claim 35, wherein the fraction has a weight-average molecular mass between 5kDa and 30 kDa.
- 37. (currently amended) A method for isolating and purifying Stx-binding polyphenols, comprising:

contacting a mixture comprising [an]a Stx-binding polyphenolic compound isolated from *Humulus lupulus* with an Stx to form a macromolecular complex between the compound and the Stx;

isolating the macromolecular complex; and

separating the polyphenolic compound from the macromolecular complex to obtain a purified sample of the polyphenolic compound that binds Stx.

38. (original) The method of claim 37, wherein the Stx is coupled to an activated chromatographic matrix.

- 39. (original) The method of claim 37, wherein the Stx comprises he bioreceptor of a biosensor.
 - 40. (original) The method of claim 38, wherein the Stx is Stx1.
- 41. (original) A method for prophylatic or post-exposure treatment of an inhaled Stx comprising administering a therapeutically effective amount of hop bract tannin intranasally to a subject.
 - 42. (original) A biosensor, comprising: a hop bract tannin as a bioreceptor, and
 - a transducer.
- 43. (original) The biosensor of claim 42, wherein the hop bract tannin is a polycatechin between a 10-mer and a 30-mer.
 - 44. (original) The method of claim 43, wherein the polycatechin has the forumla

where n = 8 to 28, or

where n = 8 to 28.

- 45. (original) The method of claim 42, wherein the hop bract tannin comprises a fraction isolated from a hop bract extract.
- 46. (original) The method of claim 45, wherein the fraction has a weight-average molecular mass between 5kDa and 30 kDa.

47.-57. (canceled)

- 58. (original) A method for neutralizing a bacterial toxin, comprising: providing a hop bract tannin; and contacting the bacterial toxin with the hop bract tannin to neutralize the toxin.
- 59. (original) The method of claim 58, wherein the bacterial toxin is selected from the group consisting of Shiga toxins and cholera toxins.
- 60. (original) The method of claim 58, wherein the hop bract tannin comprises a subfraction having a weight-average molecular weight from 5 kDa to 30 kDa.

- 61. (original) The method of claim 58, wherein the hop bract tannin comprises a polycatechin selected from the group of 10-mers to 30-mers, and mixtures thereof.
- 62. (original) An isolated polyphenolic component of a high molecular weight fraction of a hop bract extract, the high molecular weight fraction having a weight average molecular weight of greater than 5 kDa.
- 63. (original) A subfraction of a high molecular weight fraction of a hop bract extract, the high molecular weight fraction having a weight average molecular weight of greater than 5 kDa.
- 64. (original) The subfraction of claim 63, wherein the subfraction has a weight average molecular weight range selected from the group consisting of 5 kDa-30kDa, 5kDa-10kDa, 5kDa-8kDa, 8kDa-30kDa, 8kDa-10kDa and 10kDa-30kDa.

Remarks

By this Amendment the specification has been amended to reflect prior related applications and to add an abstract on a separate page.

Claims 16, 26, 28 and 47-57 have been canceled, solely to reduce the filing fee and not for reasons of patentability. Claim 25 was inadvertently not included in the parent PCT application. To conform with the requirements of U.S. patent practice, claim 25 is indicated to be canceled. Claims 22 and 37 have been amended to correct matters of form. Claim 17 has been amended to be in dependent form, solely to reduce the filing fee.

The present application is being filed with a reduced filing fee under 37 CFR 1.492(a)(4), because the international preliminary examination fee was paid to the United States Patent and Trademark Office, and the international preliminary examination report (IPER) stated that the criteria of novelty, inventive step (non-obviousness), and industrial applicability, as defined in PCT Article 33(1)-(4), have been satisfied for all the claims presented in the application entering the national stage. As the claim amendments were made solely to reduce the filing fee, and to correct matters of form, Applicants believe that they are entitled to the reduced fee. If the United States Patent and Trademark Office determines that the standard filing fee is due, please charge this fee to Deposit Account No. 02-4550.

No new matter has been added by this Amendment.

Conclusion

If any minor matters remain to be resolved before examination of this application, please call the undersigned at the telephone number listed below.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

Ву

Susan Alpert Siegel, Ph.D. Registration No. 43,121

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ABSTRACT

FACTORS THAT BIND INTESTINAL TOXINS

Methods for neutralizing bacterial toxins such as Shiga toxins and cholera toxins are disclosed. In a particular embodiment, a method is provided for treating a subject suffering from an infection caused by an Stx-producing organism by administering a therapeutically effective amount of a hop bract tannin obtained from *Humulus lupulus*. Also provided are methods for isolating polyphenolic compounds that bind Stx molecules, and methods for detecting the presence of Stx molecules in a biological sample. In a disclosed embodiment, a subject infected with a Shiga toxin-producing *E. coli* strain is treated by enterically administering a high molecular weight fraction of hop bract extract to the subject.